

Investigative Task #4 Olympic Long Jumps

Assigned 11/30/18

Due 12/7/18

Olympic Long Jumps

The modern Olympic Games, a modified revival of the ancient Greek Olympian Games, were inaugurated in 1896. Since then, the Games have been held nearly every four years at various sites around the world, and have become a major international athletic competition.

Based on the gold medal distances shown, write a report about the men's long jump. In your report be sure to:

- include appropriate graphical and numerical analyses;
- discuss the trend in long jump performances, based on an appropriate linear model;
- explain the decisions you made in creating your model, with some historical analysis of gaps in the data and departures from the trend;
- predict the gold-medal-winning distance in the men's long jump at the 2008 Games in Beijing, with comments on your faith in that prediction.
- It turns out that Irving Saladino of Panama won the gold in Beijing with a jump of 324.4 inches. How does this compare with your prediction?

YEAR	DISTANCE (inches)
1896	249.75
1900	282.875
1904	289
1908	294.5
1912	299.25
1920	281.5
1924	293.125
1928	304.75
1932	300.75
1936	317.3125
1948	308
1952	298
1956	308.25
1960	319.75
1964	317.75
1968	350.5
1972	324.5
1976	328.5
1980	336.25
1984	336.25
1988	343.25
1992	342.5
1996	334.65
2000	336.6
2004	338.2

You may discuss your work with others in the class and compare calculations as you go, but EACH STUDENT MUST TURN IN THEIR OWN REPORT.